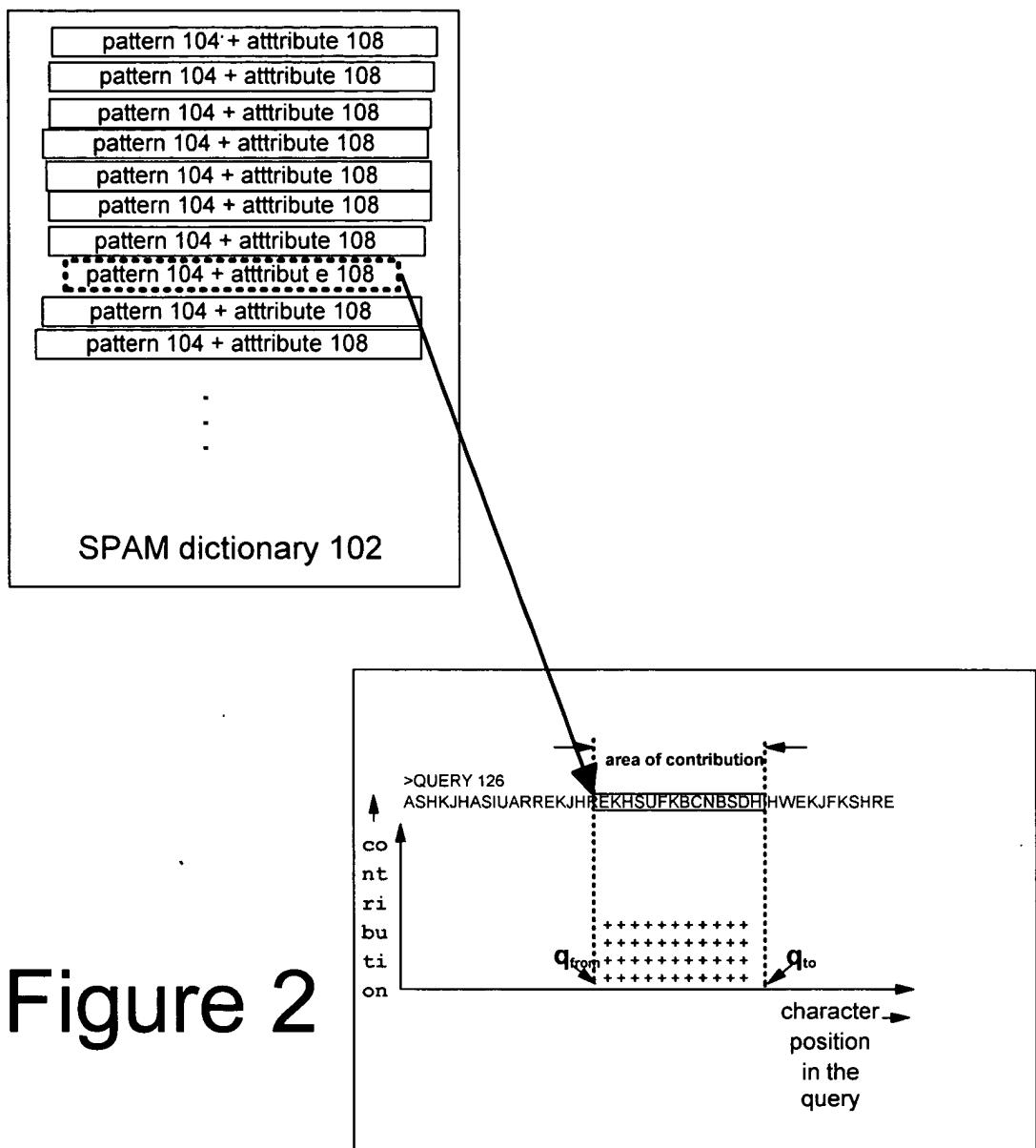
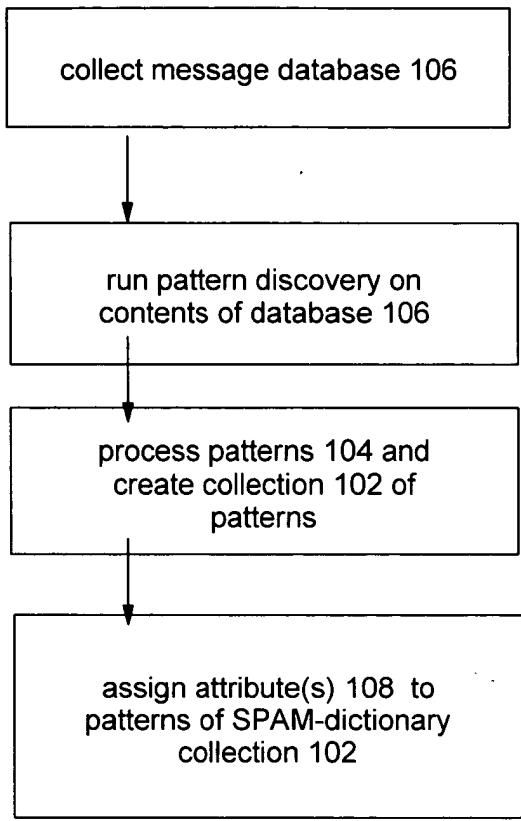


Figure 1



creation of pattern collection



classification of query message

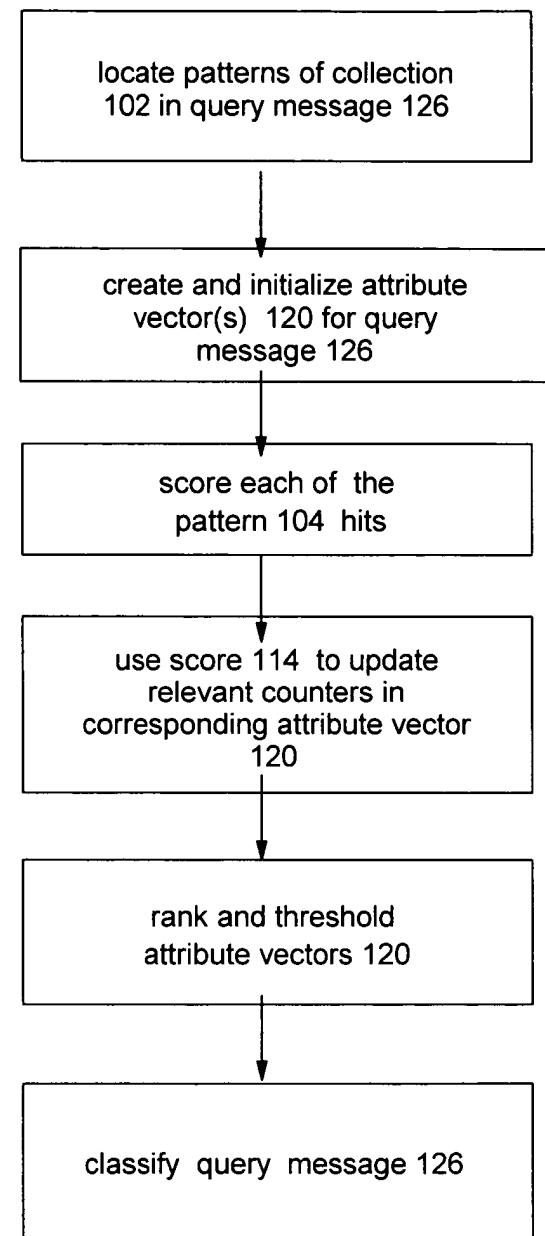


Figure 3